

# Use of an epoxidation reagent, and process for the preparation of 5-alpha (10-alpha) epoxy-delta 9(11) steroids

**Patent number:** EP0298020  
**Publication date:** 1989-01-04  
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**Classification:**  
- **international:** C07D301/12; C07J71/00  
- **european:** C07D301/12; C07J71/00B1  
**Application number:** EP19880730149 19880701  
**Priority number(s):** DE19873722486 19870703

**Also published as:**  
 DE3722486 (A1)  
 EP0298020 (B1)

**Cited documents:**  
 DE2239681  
 EP0005100  
 US4344887

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## Abstract of EP0298020

An epoxidation reagent comprising hydrogen peroxide and at least one aryl methyl ketone of the formula I in which X represents a fluorine or chlorine atom, R<1>, R<2> and R<3>, which may be identical or different, each represent a C1-C6-alkyl, C6-C10-aryl, C6-C10-Ar-C1-C6-alkyl, O-C1-C6-alkyl, O-C6-C10-aryl radical, a fluorine, chlorine, bromine or hydrogen atom, a cyano, nitro or trifluoromethyl group, an amido radical -CO-NR<4>R<5> or a sulphonyl radical -SO<sub>2</sub>R<4>, in which R<4> and R<5> are identical or different and each denote a C1-C6-alkyl, C1-C10-aryl or a C6-C10-aryl-C1-C6-alkyl group, in which in the case of -CO-NR<4>R<5> R<4> and R<5> together can form an aliphatic or aromatic 5- or 6-membered heterocycle, or R<1> and R<2> together represent a fused aliphatic or aromatic ring and its use for the epoxidation of organic compounds are described.

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Atty. Docket No. S02932/3A/US  
Serial No. 10/696,940  
Daniel L. Flynn et al.  
Reference 13

EV 726254443 US